

Application No. 10/691,056
Art Unit 1774, Examiner Edwards
Docket No. CL-1453 US CIP
November 23, 2005
Page No. 3

Remarks: General

The claims have been amended by rewriting Claims 1, 16, 17, 19, 20, 22 and 23; canceling Claim 15 without prejudice to or disclaimer of the subject matter thereof; and adding new Claims 26-71.

No new matter is added by these amendments. The limitation added herein to Claim 1 is taken from Claim 15, which has been canceled. The limitation contained in Claim 26 corresponds to Claim 24. The limitation contained in Claim 39 corresponds to Claim 25. The limitation contained in Claim 51 corresponds to Claim 22. The limitation contained in Claim 62 corresponds to Claim 19.

The correspondence between other new claims and various previously-pending claims is shown in the following tabulation:

Claims 27, 40, 52 and 63 correspond to Claim 2;
Claims 28, 41, 53 and 64 correspond to Claim 3;
Claims 29, 42, 54 and 65 correspond to Claim 4;
Claims 30, 43, 55 and 66 correspond to Claim 16;
Claims 31, 44, 56 and 67 correspond to Claim 17;
Claims 32, 45, 57 and 68 correspond to Claim 18;
Claims 33, 46 and 58 correspond to Claim 19;
Claims 34, 47, 59 and 69 correspond to Claim 20;
Claims 35, 48, 60 and 70 correspond to Claim 21;
Claims 36 and 49 correspond to Claim 22;
Claims 37, 50, 61 and 71 correspond to Claim 23; and
Claim 38 corresponds to Claim 25.

The amendments to Claims 16 and 20 are not related to patentability inasmuch as they do not narrow the literal scope thereof, and are made solely for the purpose of adjusting dependency, providing greater clarity of expression or improving syntax and grammar.

The fee due by reason of the addition of Claims 26-71 was calculated on the fee sheet attached to the paper filed on October 19, 2005, and may be charged to Deposit Account No. 04-1928 (E.I. du Pont de Nemours and Company). If the calculation on the attached

Application No. 10/691,056
Art Unit 1774, Examiner Edwards
Docket No. CL-1453 US CIP
November 23, 2005
Page No. 4

sheet is in error, please charge or credit Deposit Account No. 04-1928 accordingly.

A supplemental Information Disclosure Statement ("IDS") pursuant to 37 CFR §1.98 was enclosed with the paper filed on October 19, 2005, for which the fee stated in §1.17(p) is due by reason of §1.97(c)(2). Please charge this fee to Deposit Account No. 04-1928.

A request for continued examination under 37 CFR §1.114 was enclosed with the paper filed on October 19, 2005, the fee for which should be charged to Deposit Account No. 04-1928. A petition under 37 CFR §1.136 for a three-month extension of time to respond to the Examiner's April 26, 2005 Office Action was enclosed with the paper filed on October 19, 2005, the fee for which should be charged to Deposit Account No. 04-1928.

If any fee other than or in addition to those mentioned specifically above is required to authorize or obtain consideration of this response and the enclosed IDS, please charge such fee to Deposit Account No. 04-1928.

Claims 1~4 and 16~71 are now active in the application. Applicant hereby requests reconsideration and further examination of the application in view of the reasons it has set forth below for allowance of the claims.

Application No. 10/691,056
Art Unit 1774, Examiner Edwards
Docket No. CL-1453 US CIP
November 23, 2005
Page No. 5

Remarks: Detailed Action

I.

The Examiner has rejected Claims 15~17, 22 and 23 under 35 U.S.C. §112 as being indefinite in view of the use of the term "fiber". As Applicant has either deleted the term "fiber" from those claims, or replaced it with other appropriate terminology, Applicant respectfully requests that the Examiner withdraw the rejection of Claims 15~17, 22 and 23 under 35 U.S.C. §112.

II.

The Examiner has rejected Claims 1~4 under 35 U.S.C. §102(b) as being anticipated by US 4,403,470 ("Nelson") alone or optionally taken together with GB 924,086.

In view of the incorporation into Claim 1 of a feature characterizing a specific property of the claimed yarn, and the corresponding inclusion in Claims 26, 39, 51 and 62 of yarn property features, it is believed that Nelson alone, or Nelson taken in view of GB-086, does not teach or suggest the yarns to which the pending claims are directed. Applicant therefore respectfully requests that the Examiner withdraw the rejection of Claims 1~4 under 35 U.S.C. §102(b).

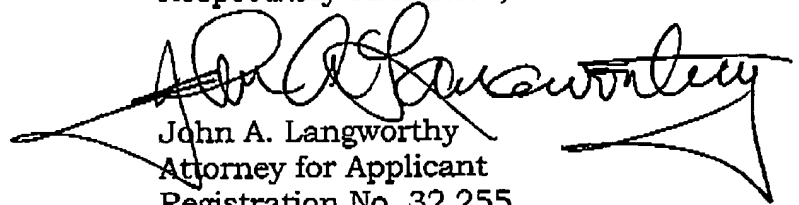
III.

An oath and power of attorney for the three inventors listed in the ADS was enclosed with the paper filed on October 19, 2005. It is noted in this connection that the filing receipt is incorrect as it lists too many inventors. A corrected filing receipt is hereby respectfully requested.

In view of the foregoing, Applicant submits that all of the Examiner's objections and rejections have been properly traversed, and that the pending claims are in condition for allowance, request for which is hereby respectfully made.

Application No. 10/691,056
Art Unit 1774, Examiner Edwards
Docket No. CL-1453 US CIP
November 23, 2005
Page No. 6

Respectfully submitted,

A handwritten signature in black ink, appearing to read "John A. Langworthy", is written over the typed name. The signature is stylized with a large, sweeping initial 'J' and a long horizontal stroke extending to the right.

John A. Langworthy
Attorney for Applicant
Registration No. 32,255
Telephone: (302) 992-4362
Facsimile: (302) 992-5374

Application No. 10/691,056
Art Unit 1774, Examiner Edwards
Docket No. CL-1453 US CIP
November 23, 2005
Page No. 7

Appendix A

(i) Amendments
in marked-up form to
Claims 1, 16, 17, 19, 20, 22 and 23

(ii) New Claims 26~71, and

(iii) Status of all other claims

1. (currently amended) A consolidated yarn comprising (a) discontinuous filaments of different lengths that have not been drawn and are intermingled along a length of the yarn to maintain a unity of the yarn, and (b) continuous filaments intermingled with the discontinuous filaments along the length of the yarn;

wherein the discontinuous filaments comprise materials selected from the group consisting of nylon, polyester, an aramid, a fluoropolymer, an acetate polymer or copolymer, an acrylic polymer or copolymer, polyacetal, an acrylate polymer or copolymer, polyacrylonitrile, a cellulose polymer, an olefin polymer or copolymer, polyimide, a styrenic polymer or copolymer, an ether/ester copolymer, a copolymer of an amide with an ether and/or ester, a vinyl polymer, and a polyimide; and mixtures of any two or more thereof; and

wherein the continuous filaments comprise materials that are different from the materials from which the discontinuous filaments are comprised and are selected from the group consisting of nylon, polyester, an aramid, a fluoropolymer, an acetate polymer or copolymer, an acrylic polymer or copolymer, polyacetal, an acrylate polymer or copolymer, polyacrylonitrile, a cellulose polymer, an olefin

Application No. 10/691,056
Art Unit 1774, Examiner Edwards
Docket No. CL-1453 US CIP
November 23, 2005
Page No. 8

BEST AVAILABLE COPY

polymer or copolymer, polyimide, a styrenic polymer or copolymer, an ether/ester copolymer, a copolymer of an amide with an ether and/or ester, a vinyl polymer, a polyimide, a polyurethane, a copolymer having blocks of polyurethane and blocks of polymerized ethers and/or esters, a natural fiber, a metallic fiber or wire, a glass fiber or a ceramic fiber; and mixtures of any two or more thereof; and

wherein the average length, "avg", of the discontinuous filaments is greater than 6 inches, and the discontinuous filaments have a filament length distribution characterized by the fact that 5% to less than 15% of the discontinuous filaments have a length that is greater than 1.5 avg.

2. (original) A yarn according to Claim 1 wherein the discontinuous filaments comprise materials selected from the group consisting of nylon, polyester, an aramid, a fluoropolymer, a cellulose polymer, an olefin polymer or copolymer, an ether/ester copolymer, a vinyl polymer, and mixtures of any two or more thereof

3. (previously presented) A yarn according to Claim 1 wherein the wherein the continuous filaments comprise materials that are different from the materials from which the discontinuous filaments are comprised and are selected from the group consisting of nylon, polyester, an aramid, a fluoropolymer, an acrylic polymer or copolymer, a cellulose polymer, an olefin polymer or copolymer, a styrenic polymer or copolymer, an ether/ester copolymer, a vinyl polymer, a polyimide, a polyurethane, a copolymer having blocks of polyurethane and blocks of polymerized ethers and/or esters, a

Application No. 10/691,056
Art Unit 1774, Examiner Edwards
Docket No. CL-1453 US CIP
November 23, 2005
Page No. 9

BEST AVAILABLE COPY

natural fiber, a metallic fiber or wire, a glass fiber or a ceramic fiber; and mixtures of any two or more thereof.

4. (original) A yarn according to Claim 1 wherein the discontinuous filaments comprise materials selected from the group consisting of nylon, polyester, an aramid, a fluoropolymer, a cellulose polymer, an olefin polymer or copolymer, and mixtures of any two or more thereof; and wherein the continuous filaments comprise different materials selected from the group consisting of nylon, polyester, an aramid, a fluoropolymer, a cellulose polymer, an olefin polymer or copolymer, a polyurethane, a copolymer having blocks of polyurethane and blocks of polymerized ethers and/or esters, a metallic fiber or wire, a glass fiber or a ceramic fiber; and mixtures of any two or more thereof.

5 ~ 15. (canceled)

16. (currently amended) A yarn according to Claim 1 wherein ~~the average length, avg, of the discontinuous filaments is greater than 6 inches, and the fiber has~~ have a filament length distribution of 5% to less than 15% of the filaments having a length less than 0.5 avg, ~~and that 5% to less than 15% of the filaments have a length that is greater than 1.5avg.~~

17. (currently amended) A yarn according to Claim 1 wherein at least 1% of the discontinuous filaments in the yarn by ~~denier comprises a fiber having~~ have a filament-to-filament coefficient of friction of 0.1 or less.

Application No. 10/691,056
Art Unit 1774, Examiner Edwards
Docket No. CL-1453 US CIP
November 23, 2005
Page No. 10

BEST AVAILABLE COPY

18. (previously presented) A yarn according to Claim 1 wherein at least 1% of the discontinuous filaments in the yarn have a filament cross-section having a width and a plurality of thick portions connected by thin portions within the filament width, and the thin portions at the ends of the discontinuous filaments are severed so the thick portions are separated for a length of at least about three filament widths to thereby form split ends on the filaments.

19. (currently amended) A yarn according to Claim 1 wherein at least 1% of the discontinuous filaments in the yarn by ~~denier comprises a fiber having filaments with~~ have a latent elasticity of 30% or more.

20. (currently amended) A yarn according to Claim 1 wherein at least 1% of the discontinuous filaments in the yarn by ~~denier is~~ comprise a bicomponent yarn comprising a first component of 2GT polyester and a second component of 3GT polyester.

21. (previously presented) A yarn according to Claim 1 wherein at least 1% of the yarn by denier comprises a fluoropolymer.

22. (currently amended) A yarn according to Claim 1 ~~wherein the fiber in the yarn which~~ comprises at least two fibers filaments that have visually distinct differences detectable by an unaided eye.

Application No. 10/691,056
Art Unit 1774, Examiner Edwards
Docket No. CL-1453 US CIP
November 23, 2005
Page No. 11

BEST AVAILABLE COPY

23. (currently amended) A yarn according to Claim ~~1~~22 wherein the differences comprise a difference in colors, the colors of the ~~fibers~~filaments excluding neutral colors having a lightness greater than 90%, and the colors of the ~~fibers~~filaments having a color difference of at least 2.0 CIELAB units, the lightness and color difference measured according to ASTM committee E12, standard E-284, to form a multicolored yarn.

24. (previously presented) A yarn according to Claim 1 wherein the continuous filaments have less than 10% elongation to break.

25. (previously presented) A yarn according to Claim 1 wherein the continuous filaments comprising elastic filaments having an elongation to break greater than about 100% and an elastic recovery of at least 30% from an extension of 50%.

Application No. 10/691,056
Art Unit 1774, Examiner Edwards
Docket No. CL-1453 US CIP
November 23, 2005
Page No. 12

26 (new) A consolidated yarn comprising (a) discontinuous filaments of different lengths that have not been drawn and are intermingled along a length of the yarn to maintain a unity of the yarn, and (b) continuous filaments intermingled with the discontinuous filaments along the length of the yarn;

wherein the discontinuous filaments comprise materials selected from the group consisting of nylon, polyester, an aramid, a fluoropolymer, an acetate polymer or copolymer, an acrylic polymer or copolymer, polyacetal, an acrylate polymer or copolymer, polyacrylonitrile, a cellulose polymer, an olefin polymer or copolymer, polyimide, a styrenic polymer or copolymer, an ether/ester copolymer, a copolymer of an amide with an ether and/or ester, a vinyl polymer, and a polyimide; and mixtures of any two or more thereof;

wherein the continuous filaments comprise materials that are different from the materials from which the discontinuous filaments are comprised and are selected from the group consisting of nylon, polyester, an aramid, a fluoropolymer, an acetate polymer or copolymer, an acrylic polymer or copolymer, polyacetal, an acrylate polymer or copolymer, polyacrylonitrile, a cellulose polymer, an olefin polymer or copolymer, polyimide, a styrenic polymer or copolymer, an ether/ester copolymer, a copolymer of an amide with an ether and/or ester, a vinyl polymer, a polyimide, a polyurethane, a copolymer having blocks of polyurethane and blocks of polymerized ethers and/or esters, a natural fiber, a metallic fiber or wire, a glass fiber or a ceramic fiber; and mixtures of any two or more thereof; and

wherein the continuous filaments have less than 10% elongation to break.

Application No. 10/691,056
Art Unit 1774, Examiner Edwards
Docket No. CL-1453 US CIP
November 23, 2005
Page No. 13

27. (new) A yarn according to Claim 26 wherein the discontinuous filaments comprise materials selected from the group consisting of nylon, polyester, an aramid, a fluoropolymer, a cellulose polymer, an olefin polymer or copolymer, an ether/ester copolymer, a vinyl polymer, and mixtures of any two or more thereof

28. (new) A yarn according to Claim 26 wherein the wherein the continuous filaments comprise materials that are different from the materials from which the discontinuous filaments are comprised and are selected from the group consisting of nylon, polyester, an aramid, a fluoropolymer, an acrylic polymer or copolymer, a cellulose polymer, an olefin polymer or copolymer, a styrenic polymer or copolymer, an ether/ester copolymer, a vinyl polymer, a polyimide, a polyurethane, a copolymer having blocks of polyurethane and blocks of polymerized ethers and/or esters, a natural fiber, a metallic fiber or wire, a glass fiber or a ceramic fiber; and mixtures of any two or more thereof.

29. (new) A yarn according to Claim 26 wherein the discontinuous filaments comprise materials selected from the group consisting of nylon, polyester, an aramid, a fluoropolymer, a cellulose polymer, an olefin polymer or copolymer, and mixtures of any two or more thereof; and wherein the continuous filaments comprise different materials selected from the group consisting of nylon, polyester, an aramid, a fluoropolymer, a cellulose polymer, an olefin polymer or copolymer, a polyurethane, a copolymer having blocks of polyurethane and blocks of polymerized ethers and/or esters, a

Application No. 10/691,056
Art Unit 1774, Examiner Edwards
Docket No. CL-1453 US CIP
November 23, 2005
Page No. 14

metallic fiber or wire, a glass fiber or a ceramic fiber; and mixtures of any two or more thereof.

30. (new) A yarn according to Claim 26 wherein the average length, avg, of the discontinuous filaments is greater than 6 inches, and the discontinuous filaments have a filament length distribution of 5% to less than 15% of the filaments having a length less than 0.5 avg.

31. (new) A yarn according to Claim 26 wherein at least 1% of the discontinuous filaments in the yarn by denier have a filament-to-filament coefficient of friction of 0.1 or less.

32. (new) A yarn according to Claim 26 wherein at least 1% of the discontinuous filaments in the yarn have a filament cross-section having a width and a plurality of thick portions connected by thin portions within the filament width, and the thin portions at the ends of the discontinuous filaments are severed so the thick portions are separated for a length of at least about three filament widths to thereby form split ends on the filaments.

33. (new) A yarn according to Claim 26 wherein at least 1% of the discontinuous filaments in the yarn by denier have a latent elasticity of 30% or more.

34. (new) A yarn according to Claim 26 wherein at least 1% of the discontinuous filaments in the yarn by denier comprise a

Application No. 10/691,056
Art Unit 1774, Examiner Edwards
Docket No. CL-1453 US CIP
November 23, 2005
Page No. 15

bicomponent yarn comprising a first component of 2GT polyester and a second component of 3GT polyester.

35. (new) A yarn according to Claim 26 wherein at least 1% of the yarn by denier comprises a fluoropolymer.

36. (new) A yarn according to Claim 26 which comprises at least two filaments that have visually distinct differences detectable by an unaided eye.

37. (new) A yarn according to Claim 36 wherein the differences comprise a difference in colors, the colors of the filaments excluding neutral colors having a lightness greater than 90%, and the colors of the filaments having a color difference of at least 2.0 CIELAB units, the lightness and color difference measured according to ASTM committee E12, standard E-284, to form a multicolored yarn.

38. (new) A yarn according to Claim 26 wherein the continuous filaments comprise elastic filaments having an elongation to break greater than about 100% and an elastic recovery of at least 30% from an extension of 50%.

Application No. 10/691,056
Art Unit 1774, Examiner Edwards
Docket No. CL-1453 US CIP
November 23, 2005
Page No. 16

BEST AVAILABLE COPY

39. (new) A consolidated yarn comprising (a) discontinuous filaments of different lengths that have not been drawn and are intermingled along a length of the yarn to maintain a unity of the yarn, and (b) continuous filaments intermingled with the discontinuous filaments along the length of the yarn;

wherein the discontinuous filaments comprise materials selected from the group consisting of nylon, polyester, an aramid, a fluoropolymer, an acetate polymer or copolymer, an acrylic polymer or copolymer, polyacetal, an acrylate polymer or copolymer, polyacrylonitrile, a cellulose polymer, an olefin polymer or copolymer, polyimide, a styrenic polymer or copolymer, an ether/ester copolymer, a copolymer of an amide with an ether and/or ester, a vinyl polymer, and a polyimide; and mixtures of any two or more thereof;

wherein the continuous filaments comprise materials that are different from the materials from which the discontinuous filaments are comprised and are selected from the group consisting of nylon, polyester, an aramid, a fluoropolymer, an acetate polymer or copolymer, an acrylic polymer or copolymer, polyacetal, an acrylate polymer or copolymer, polyacrylonitrile, a cellulose polymer, an olefin polymer or copolymer, polyimide, a styrenic polymer or copolymer, an ether/ester copolymer, a copolymer of an amide with an ether and/or ester, a vinyl polymer, a polyimide, a polyurethane, a copolymer having blocks of polyurethane and blocks of polymerized ethers and/or esters, a natural fiber, a metallic fiber or wire, a glass fiber or a ceramic fiber; and mixtures of any two or more thereof; and

Application No. 10/691,056
Art Unit 1774, Examiner Edwards
Docket No. CL-1453 US CIP
November 23, 2005
Page No. 17

wherein the continuous filaments comprise elastic filaments having an elongation to break greater than about 100% and an elastic recovery of at least 30% from an extension of 50%.

40. (new) A yarn according to Claim 39 wherein the discontinuous filaments comprise materials selected from the group consisting of nylon, polyester, an aramid, a fluoropolymer, a cellulose polymer, an olefin polymer or copolymer, an ether/ester copolymer, a vinyl polymer, and mixtures of any two or more thereof

41. (new) A yarn according to Claim 39 wherein the wherein the continuous filaments comprise materials that are different from the materials from which the discontinuous filaments are comprised and are selected from the group consisting of nylon, polyester, an aramid, a fluoropolymer, an acrylic polymer or copolymer, a cellulose polymer, an olefin polymer or copolymer, a styrenic polymer or copolymer, an ether/ester copolymer, a vinyl polymer, a polyimide, a polyurethane, a copolymer having blocks of polyurethane and blocks of polymerized ethers and/or esters, a natural fiber, a metallic fiber or wire, a glass fiber or a ceramic fiber; and mixtures of any two or more thereof.

42. (new) A yarn according to Claim 39 wherein the discontinuous filaments comprise materials selected from the group consisting of nylon, polyester, an aramid, a fluoropolymer, a cellulose polymer, an olefin polymer or copolymer, and mixtures of any two or more thereof; and wherein the continuous filaments comprise different materials selected from the group consisting of nylon,

Application No. 10/691,056
Art Unit 1774, Examiner Edwards
Docket No. CL-1453 US CIP
November 23, 2005
Page No. 18

polyester, an aramid, a fluoropolymer, a cellulose polymer, an olefin polymer or copolymer, a polyurethane, a copolymer having blocks of polyurethane and blocks of polymerized ethers and/or esters, a metallic fiber or wire, a glass fiber or a ceramic fiber; and mixtures of any two or more thereof.

43. (new) A yarn according to Claim 39 wherein the average length, avg, of the discontinuous filaments is greater than 6 inches, and the discontinuous filaments have a filament length distribution of 5% to less than 15% of the filaments having a length less than 0.5 avg.

44. (new) A yarn according to Claim 39 wherein at least 1% of the discontinuous filaments in the yarn by denier have a filament-to-filament coefficient of friction of 0.1 or less.

45. (new) A yarn according to Claim 39 wherein at least 1% of the discontinuous filaments in the yarn have a filament cross-section having a width and a plurality of thick portions connected by thin portions within the filament width, and the thin portions at the ends of the discontinuous filaments are severed so the thick portions are separated for a length of at least about three filament widths to thereby form split ends on the filaments.

46. (new) A yarn according to Claim 39 wherein at least 1% of the discontinuous filaments in the yarn by denier have a latent elasticity of 30% or more.

Application No. 10/691,056
Art Unit 1774, Examiner Edwards
Docket No. CL-1453 US CIP
November 23, 2005
Page No. 19

47. (new) A yarn according to Claim 39 wherein at least 1% of the discontinuous filaments in the yarn by denier comprise a bicomponent yarn comprising a first component of 2GT polyester and a second component of 3GT polyester.

48. (new) A yarn according to Claim 39 wherein at least 1% of the yarn by denier comprises a fluoropolymer.

49. (new) A yarn according to Claim 39 which comprises at least two filaments that have visually distinct differences detectable by an unaided eye.

50. (new) A yarn according to Claim 49 wherein the differences comprise a difference in colors, the colors of the filaments excluding neutral colors having a lightness greater than 90%, and the colors of the filaments having a color difference of at least 2.0 CIELAB units, the lightness and color difference measured according to ASTM committee E12, standard E-284, to form a multicolored yarn.

Application No. 10/691,056
Art Unit 1774, Examiner Edwards
Docket No. CL-1453 US CIP
November 23, 2005
Page No. 20

51. (new) A consolidated yarn comprising (a) discontinuous filaments of different lengths that have not been drawn and are intermingled along a length of the yarn to maintain a unity of the yarn, and (b) continuous filaments intermingled with the discontinuous filaments along the length of the yarn;

wherein the discontinuous filaments comprise materials selected from the group consisting of nylon, polyester, an aramid, a fluoropolymer, an acetate polymer or copolymer, an acrylic polymer or copolymer, polyacetal, an acrylate polymer or copolymer, polyacrylonitrile, a cellulose polymer, an olefin polymer or copolymer, polyimide, a styrenic polymer or copolymer, an ether/ester copolymer, a copolymer of an amide with an ether and/or ester, a vinyl polymer, and a polyimide; and mixtures of any two or more thereof;

wherein the continuous filaments comprise materials that are different from the materials from which the discontinuous filaments are comprised and are selected from the group consisting of nylon, polyester, an aramid, a fluoropolymer, an acetate polymer or copolymer, an acrylic polymer or copolymer, polyacetal, an acrylate polymer or copolymer, polyacrylonitrile, a cellulose polymer, an olefin polymer or copolymer, polyimide, a styrenic polymer or copolymer, an ether/ester copolymer, a copolymer of an amide with an ether and/or ester, a vinyl polymer, a polyimide, a polyurethane, a copolymer having blocks of polyurethane and blocks of polymerized ethers and/or esters, a natural fiber, a metallic fiber or wire, a glass fiber or a ceramic fiber; and mixtures of any two or more thereof; and

wherein the yarn comprises at least two filaments that have visually distinct differences detectable by an unaided eye.

Application No. 10/691,056
Art Unit 1774, Examiner Edwards
Docket No. CL-1453 US CIP
November 23, 2005
Page No. 21

52. (new) A yarn according to Claim 51 wherein the discontinuous filaments comprise materials selected from the group consisting of nylon, polyester, an aramid, a fluoropolymer, a cellulose polymer, an olefin polymer or copolymer, an ether/ester copolymer, a vinyl polymer, and mixtures of any two or more thereof

53. (new) A yarn according to Claim 51 wherein the wherein the continuous filaments comprise materials that are different from the materials from which the discontinuous filaments are comprised and are selected from the group consisting of nylon, polyester, an aramid, a fluoropolymer, an acrylic polymer or copolymer, a cellulose polymer, an olefin polymer or copolymer, a styrenic polymer or copolymer, an ether/ester copolymer, a vinyl polymer, a polyimide, a polyurethane, a copolymer having blocks of polyurethane and blocks of polymerized ethers and/or esters, a natural fiber, a metallic fiber or wire, a glass fiber or a ceramic fiber; and mixtures of any two or more thereof.

54. (new) A yarn according to Claim 51 wherein the discontinuous filaments comprise materials selected from the group consisting of nylon, polyester, an aramid, a fluoropolymer, a cellulose polymer, an olefin polymer or copolymer, and mixtures of any two or more thereof; and wherein the continuous filaments comprise different materials selected from the group consisting of nylon, polyester, an aramid, a fluoropolymer, a cellulose polymer, an olefin polymer or copolymer, a polyurethane, a copolymer having blocks of polyurethane and blocks of polymerized ethers and/or esters, a

Application No. 10/691,056
Art Unit 1774, Examiner Edwards
Docket No. CL-1453 US CIP
November 23, 2005
Page No. 22

metallic fiber or wire, a glass fiber or a ceramic fiber; and mixtures of any two or more thereof.

55. (new) A yarn according to Claim 51 wherein the average length, avg, of the discontinuous filaments is greater than 6 inches, and the discontinuous filaments have a filament length distribution of 5% to less than 15% of the filaments having a length less than 0.5 avg.

56. (new) A yarn according to Claim 51 wherein at least 1% of the discontinuous filaments in the yarn by denier have a filament-to-filament coefficient of friction of 0.1 or less.

57. (new) A yarn according to Claim 51 wherein at least 1% of the discontinuous filaments in the yarn have a filament cross-section having a width and a plurality of thick portions connected by thin portions within the filament width, and the thin portions at the ends of the discontinuous filaments are severed so the thick portions are separated for a length of at least about three filament widths to thereby form split ends on the filaments.

58. (new) A yarn according to Claim 51 wherein at least 1% of the discontinuous filaments in the yarn by denier have a latent elasticity of 30% or more.

59. (new) A yarn according to Claim 51 wherein at least 1% of the discontinuous filaments in the yarn by denier comprise a

Application No. 10/691,056
Art Unit 1774, Examiner Edwards
Docket No. CL-1453 US CIP
November 23, 2005
Page No. 23

bicomponent yarn comprising a first component of 2GT polyester and a second component of 3GT polyester.

60. (new) A yarn according to Claim 51 wherein at least 1% of the yarn by denier comprises a fluoropolymer.

61. (new) A yarn according to Claim 51 wherein the differences comprise a difference in colors, the colors of the filaments excluding neutral colors having a lightness greater than 90%, and the colors of the filaments having a color difference of at least 2.0 CIELAB units, the lightness and color difference measured according to ASTM committee E12, standard E-284, to form a multicolored yarn.

Application No. 10/691,056
Art Unit 1774, Examiner Edwards
Docket No. CL-1453 US CIP
November 23, 2005
Page No. 24

62. (new) A consolidated yarn comprising (a) discontinuous filaments of different lengths that have not been drawn and are intermingled along a length of the yarn to maintain a unity of the yarn, and (b) continuous filaments intermingled with the discontinuous filaments along the length of the yarn;

wherein the discontinuous filaments comprise materials selected from the group consisting of nylon, polyester, an aramid, a fluoropolymer, an acetate polymer or copolymer, an acrylic polymer or copolymer, polyacetal, an acrylate polymer or copolymer, polyacrylonitrile, a cellulose polymer, an olefin polymer or copolymer, polyimide, a styrenic polymer or copolymer, an ether/ester copolymer, a copolymer of an amide with an ether and/or ester, a vinyl polymer, and a polyimide; and mixtures of any two or more thereof;

wherein the continuous filaments comprise materials that are different from the materials from which the discontinuous filaments are comprised and are selected from the group consisting of nylon, polyester, an aramid, a fluoropolymer, an acetate polymer or copolymer, an acrylic polymer or copolymer, polyacetal, an acrylate polymer or copolymer, polyacrylonitrile, a cellulose polymer, an olefin polymer or copolymer, polyimide, a styrenic polymer or copolymer, an ether/ester copolymer, a copolymer of an amide with an ether and/or ester, a vinyl polymer, a polyimide, a polyurethane, a copolymer having blocks of polyurethane and blocks of polymerized ethers and/or esters, a natural fiber, a metallic fiber or wire, a glass fiber or a ceramic fiber; and mixtures of any two or more thereof; and

wherein at least 1% of the discontinuous filaments in the yarn by denier have a latent elasticity of 30% or more.

Application No. 10/691,056
Art Unit 1774, Examiner Edwards
Docket No. CL-1453 US CIP
November 23, 2005
Page No. 25

63. (new) A yarn according to Claim 62 wherein the discontinuous filaments comprise materials selected from the group consisting of nylon, polyester, an aramid, a fluoropolymer, a cellulose polymer, an olefin polymer or copolymer, an ether/ester copolymer, a vinyl polymer, and mixtures of any two or more thereof.

64. (new) A yarn according to Claim 62 wherein the wherein the continuous filaments comprise materials that are different from the materials from which the discontinuous filaments are comprised and are selected from the group consisting of nylon, polyester, an aramid, a fluoropolymer, an acrylic polymer or copolymer, a cellulose polymer, an olefin polymer or copolymer, a styrenic polymer or copolymer, an ether/ester copolymer, a vinyl polymer, a polyimide, a polyurethane, a copolymer having blocks of polyurethane and blocks of polymerized ethers and/or esters, a natural fiber, a metallic fiber or wire, a glass fiber or a ceramic fiber; and mixtures of any two or more thereof.

65. (new) A yarn according to Claim 62 wherein the discontinuous filaments comprise materials selected from the group consisting of nylon, polyester, an aramid, a fluoropolymer, a cellulose polymer, an olefin polymer or copolymer, and mixtures of any two or more thereof; and wherein the continuous filaments comprise different materials selected from the group consisting of nylon, polyester, an aramid, a fluoropolymer, a cellulose polymer, an olefin polymer or copolymer, a polyurethane, a copolymer having blocks of polyurethane and blocks of polymerized ethers and/or esters, a

Application No. 10/691,056
Art Unit 1774, Examiner Edwards
Docket No. CL-1453 US CIP
November 23, 2005
Page No. 26

metallic fiber or wire, a glass fiber or a ceramic fiber; and mixtures of any two or more thereof.

66. (new) A yarn according to Claim 62 wherein the average length, avg, of the discontinuous filaments is greater than 6 inches, and the discontinuous filaments have a filament length distribution of 5% to less than 15% of the filaments having a length less than 0.5 avg.

67. (new) A yarn according to Claim 62 wherein at least 1% of the discontinuous filaments in the yarn by denier have a filament-to-filament coefficient of friction of 0.1 or less.

68. (new) A yarn according to Claim 62 wherein at least 1% of the discontinuous filaments in the yarn have a filament cross-section having a width and a plurality of thick portions connected by thin portions within the filament width, and the thin portions at the ends of the discontinuous filaments are severed so the thick portions are separated for a length of at least about three filament widths to thereby form split ends on the filaments.

69. (new) A yarn according to Claim 62 wherein at least 1% of the discontinuous filaments in the yarn by denier comprise a bicomponent yarn comprising a first component of 2GT polyester and a second component of 3GT polyester.

70. (new) A yarn according to Claim 62 wherein at least 1% of the yarn by denier comprises a fluoropolymer.

Application No. 10/691,056
Art Unit 1774, Examiner Edwards
Docket No. CL-1453 US CIP
November 23, 2005
Page No. 27

71. (new) A yarn according to Claim 62 which comprises at least two filaments that have visually distinct differences detectable by an unaided eye, wherein the differences comprise a difference in colors, the colors of the filaments excluding neutral colors having a lightness greater than 90%, and the colors of the filaments having a color difference of at least 2.0 CIELAB units, the lightness and color difference measured according to ASTM committee E12, standard E-284, to form a multicolored yarn.